



College of Education, Health, & Human Services

www.ehhs.kent.edu

Dr. Jacob Barkley, Ph.D

Assistant Professor
HS
jbarkle1@kent.edu

Education

Ph.D., Exercise Science/Applied Physiology State University of New York at Buffalo	2007
M.S., Exercise Science/Applied Physiology State University of New York at Buffalo	2002
B.S., Physical Education/Exercise Physiology State University of New York College at Brockport	1998

Higher Education Work Experience

Assistant Professor Kent State University <i>Assistant Professor in the School of Exercise Leisure and Sport. Teaching, advising and doing research in the Exercise Science program.</i>	08/2006 - present
Graduate Research Assistant SUNY University at Buffalo <i>Served as a research assistant in the Division of Behavioral Medicine in the Department of Pediatrics.</i>	08/2003 - 08/2006
Graduate Teaching Assistant SUNY University at Buffalo <i>Served as a teaching assistant in the Department of Exercise and Nutrition Sciences.</i>	08/1999 - 08/2003

Other Professional Experience

Personal Trainer K.C.'s Fitness, Buffalo NY	11/2000 - 11/2004
---	--------------------------

Wellness Center Coordinator

Rich Products, Buffalo NY

08/1998 - 08/1999**Research Assistant**

Department of Physical Education and Sport

*Brockport State College***09/1997 - 05/1998**

Publications

Barkley, J.E., J.N. Roemmich and L.H. Epstein. (2009) Reinforcing Value of Interval and Continuous Physical Activity in Children. *Physiology and Behavior*, Aug (1-2):31-6. 2009

Publication: *Journal Articles, Refereed*

Barkley, J.E., A. Penko. (2009) Physiologic Responses, Perceived Exertion and Hedonics of Playing a Physically Interactive Video Game Relative to a Sedentary Alternative and Treadmill Walking in Adults. *Journal of Exercise Physiology Online*. June 12(3): 12-23. 2009

Publication: *Journal Articles, Refereed*

Kamimori, G.H., E.J. Ryan, R. Otterstetter, J.E. Barkley, E.L. Glickman, and H.Q. Davis. (2009) Catecholamine Response to Hypoxia-Induced Acute Mountain Sickness. *Aviation, Space and Environmental Medicine* Apr;80(4):376-80. 2009

Publication: *Journal Articles, Refereed*

Bellar, D., M. Muller, E.J. Ryan, M.V. Bliss, J.E. Barkley, and E.L. Glickman . The Effects of Combined Elastic and Free Weight Tension versus Free Weight Tension on One Repetition Maximum Strength in the Bench Press *Journal of Strength and Conditioning Research*. (In-press). 2009

Publication: *Journal Articles, Refereed*

Barkley, J.E., J.N. Roemmich, E.J. Ryan, D. Bellar and M.V. Bliss. (2009) Variety of Exercise Equipment and Physical Activity participation in Children. *Journal of Sport Behavior* (In-review). 2009

Publication: *Journal Articles, Refereed*

Roemmich, J.N., J.E. Barkley, C.L. Lobarinas, J.H. Foster, T.M. White, and L.H. Epstein (2008). Association of Liking and Reinforcing Value with Children's Physical Activity. *Physiology & Behavior*. 18.93(4-5):1011-1018. 2008

Publication: *Journal Articles, Refereed*

Barkley, J.E., and J.N. Roemmich (2008). Validity of the CALER and OMNI-Bike Ratings of Perceived Exertion. *Medicine and Science in Sport and Exercise*. 40(4): 760-66. (D) 2008

Publication: *Journal Articles, Refereed*

Roemmich, J.N., J.E. Barkley, L. D'Andrea, M. Nikova, A. D. Rogal, M.A. Carskadon and P.M. Suratt. (2006). Overweight Following Adenotonsillectomy in Children with Obstructive Sleep Disordered Breathing: Association with Decreases in Motor Activity and Hyperactivity. *Pediatrics*, 117(2):e200-8. 2006

Publication: *Journal Articles, Refereed*

Roemmich, J.N., J.E. Barkley, C. Kuo, L.H. Epstein, T.M. White, J.H. Foster, and R. Paluch. (2006). Validity of CERT and OMNI-walk/run Ratings of Perceived Exertion During Treadmill Exercise. *Medicine and Science in Sport and Exercise* 38(5):1014-9. 2006
Publication: *Journal Articles, Refereed*

Gosselin, L.E., J.E. Barkley, M.J. Spencer, K.M. McCormick, and G.A. Farkas. (2003) Ventilatory dysfunction in mdx mice: Impact of tumor necrosis factor-alpha deletion. *Muscle Nerve*, 28: 336-343. 2003
Publication: *Journal Articles, Refereed*

Presentations

Barkley, J.E. Increasing the Variety of Exercise Equipment Increases Physical Activity in Children. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008. 2008
Type: *International Invited*

Barkley, J.E. Laboratory Experiences for a senior/Masters Level Exercise testing Class. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008. 2008
Type: *International Invited*

Barkley, J.E. Curriculum Trends in Exercise Science. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008. 2008
Type: *International Invited*

Barkley, J.E., J.N. Roemmich, E.J. Ryan, D. Bellar, M.V. Bliss and M.A. Rittenhouse (2008). The Effect of Increasing the Variety of Exercise Equipment on the Physical Activity Level of Children. *Medicine and Science in Sport and Exercise*, 40(5) Supplement: S320, May 2008. 55th Meeting of the American College of Sports Medicine, Indianapolis, IN. 2008
Type: *National Refereed*

Barkley, J.E., J.N. Roemmich, and L.H. Epstein (2007 May). Relationship Between A Computer Task To Assess The RRV Of Interval Versus Continuous Exercise And Free Choice Exercise. Power-point presentation at the 54rd Meeting of the American College of Sports Medicine, New Orleans, LA. 2007
Type: *National Refereed*

Roemmich, J.N., Barkley, J.E., Lobarinas, C.L., Epstein, L.H., Foster, J.H., and White, T.M. (2007 May). Liking and Reinforcing Value: Independent Predictors of Children's Physical Activity. Power-point presentation at the 54rd Meeting of the American College of Sports Medicine, New Orleans, LA. 2007
Type: *National Refereed*

Barkley, J.E., J.N. Roemmich, L.H. Epstein, and J. McNelis. (2006 June). Reinforcing Value of Interval and Continuous Exercise Above and Below the Ventilatory Threshold. Power-point presentation at the 53rd Meeting of the American College of Sports Medicine, Denver, CO. 2006
Type: *National Refereed*

Barkley, J.E., J.N. Roemmich, C.Kuo, L.H. Epstein, T.M. White, J.H. Foster, and R. Paluch. (2005 June). Validity of Omni and Cert RPE Scales in Children. Power-point presentation at the 52nd Meeting of the American College of Sports Medicine, Nashville, TN. 2005
Type: *National Refereed*

Roemmich, J.N., J.E. Barkley, L. D'Andrea, M. Nikova, P. Rogal, M.A. Carskadon and P.M. Suratt. (2005 June). Overweight Following Adenotonsillectomy in Children with Obstructive Sleep Disordered Breathing: Association with Decreases in Motor Activity and Hyperactivity. Poster presented at the 52st Meeting of the American College of Sports Medicine, Nashville, TN.
Type: *National Refereed* 2005

Barkley, J.E., J.N. Roemmich, C.Kuo, L.H. Epstein, L. Gopalan, and C. Gurgol. Predictors of Self-Reported Physical Activity of Children. (2004 May). Power-point presentation at the 51st Meeting of the American College of Sports Medicine, Indianapolis, IN.
Type: *National Refereed* 2004

Barkley, J.E., M. Spencer, G.A. Farkas, K.M. McCormick, and L.E. Gosselin. (2002 June). Impact of TNF-Alpha Elimination on Ventilation and Diaphragm Contractility in Dystrophic Mice. Poster presented at the 49th Meeting of the American College of Sports Medicine, St. Louis, MO.
Type: *National Refereed* 2002

Barkley, J.E., J. Hartel, J. Granchelli, G.A. Farkas, and L.E. Gosselin. (2001 May). Impact of Prednisone on Ventilation and Diaphragm Muscle Contractility in mdx Mice. Poster presented at the 48th Meeting of the American College of Sports Medicine, Baltimore, MD.
Type: *National Refereed* 2001

Service

Workshop Instructor - ACSM Health Fitness Instructor (HFI) 2007 - 2007
Type: *National*

Committee, The School of Exercise, Leisure and Sport Curriculum Committee 2007 - present
Representative for the Physical Education unit on the committee.
Type: *Department*

Member, The American College of Sports Medicine (ACSM) 2004 - present
Type: *National*

Grants

PI, The effect of peer influence on a session of physical activity in young children 2009 - 2010
Submitted: \$500.00 Status: Awarded
Awarded: \$500.00 (5 2009)
SELS - Basic Research

PI, The effect of peer influence on physical activity patterns in lean and overweight male children 2008 - 2009
Collaboration with: Barkley, J.E.
Submitted: \$2,462.00 Status: Awarded
Awarded: \$2,462.00 (05 2008)
Kent State University Research Council - Basic Research

<p>PI, The effect of peer influence on physical activity patterns in lean and overweight male children</p> <p>Collaboration with: Barkley, J.E.</p> <p>Submitted: \$6,500.00</p> <p>Awarded: \$6,500.00 (12 2007)</p> <p>Kent State University Research and Graduate Studies - Basic Research</p>	<p>2008 - 2008</p> <p>Status: Awarded</p>
<p>PI, Energy expenditure and the reinforcing value of the Nintendo Wii in children</p> <p>Collaboration with: Barkley, J.E.</p> <p>Submitted: \$500.00</p> <p>Awarded: \$500.00 (05 2008)</p> <p>SELS - Basic Research</p>	<p>2008 - 2008</p> <p>Status: Awarded</p>
<p>PI, The effect of increasing the variety of resistance training equipment on the amount of physical activity children perform.</p> <p>Collaboration with: Barkley, J.E., Bellar, D. and Bliss, M.</p> <p>Awarded: \$500.00</p> <p>School of Exercise, Leisure and Sport</p>	<p>2007 - 2008</p>
<p>PI, Reinforcing value of interval and continuous exercise above and below the ventilatory threshold in lean and overweight children.</p> <p>Collaboration with: Barkley, J.E., Dix, L. and Atkins, A.</p> <p>Awarded: \$500.00</p> <p>School of Exercise, Leisure and Sport</p>	<p>2006 - 2007</p>
<p>PI, The Effect of Exercise Intensity on Insulin Sensitivity in Obese, Insulin Resistant Children</p> <p>Collaboration with: Barkley, J.E.</p> <p>Awarded: \$1,500.00</p> <p>Gatorade Sports Science Institute</p>	<p>2004 - 2005</p>
<p>PI, Reinforcing value of interval and continuous exercise above and below the ventilatory threshold.</p> <p>Collaboration with: Barkley, J.E.</p> <p>Awarded: \$1,093.00</p> <p>Mark Diamond Research Foundation</p>	<p>2004 - 2005</p>
<p>Consultant, An investigation of the effectiveness of biomechanical stimulation using the Swiss Wing</p> <p>Collaboration with: Kimberly Peer, Ph.D.</p> <p>Submitted: \$20,000.00</p> <p>Awarded: \$20,000.00 (9 2010)</p> <p>Private Industry Grant - Applied Research</p>	<p>0 - 2008</p> <p>Status: Awarded</p>
<p>PI, Altering the relative reinforcing value of a prescribed bout of physical activity in lean and at-risk-for/overweight children</p> <p>Submitted: \$28,619.00</p> <p>Awarded: \$28,619.00 (0 0)</p>	<p>0 - present</p> <p>Status: Not Funded</p>



EXCELLENCE *in Action*